

Translation





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 663777	FOR FURTHER AC	RTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date	• •	Priority date (day/month/year)			
РСТ/ЈР2003/004681	14 April 2003 ((14.04.2003)	15 April 2002 (15.04.2002)			
International Patent Classification (IPC) or national classification and IPC A01H 1/00, C12N 15/09						
Applicant PHYTOCULTURE CONTROL CO., LTD.						
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of	4 sheets, i	ncluding this cover s	sheet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a to	tal of sh	neets.				
3. This report contains indications relat	ting to the following item	ıs:				
I Basis of the report	I 🔀 Basis of the report					
II Priority	II Priority					
III Non-establishment o	of opinion with regard to	novelty, inventive st	ep and industrial applicability			
IV Lack of unity of inve	ention					
Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents cited						
VII Certain defects in the international application						
VIII Certain observations on the international application						
Date of submission of the demand Date of completion of this report						
05 November 2003 (05.11.2003)		-	ebruary 2004 (13.02.2004)			
Name and mailing address of the IPEA/JP		Authorized officer				
Facsimile No.		Telephone No.				

Form PCT/IPEA/409 (cover sheet) (July 1998)

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International application No.

PCT/JP2003/004681

I. Basis of	the report
1. With reg	ard to the elements of the international application:*
⊠ th	e international application as originally filed
l 🗍 th	e description:
1 —	- COP
pa	ges, as originally filed ges, filed with the demand
pa	ges, filed with the letter of
l n	claims:
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1	ges, as originally filed ges, as amended (together with any statement under Article 19
pa	TOP CONTRACTOR OF THE CONTRACT
pa	ges, filed with the demand, filed with the demand
the	drawings:
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pag	equence listing part of the description:
pag	as originally filed
pag	filed with the demand
	, filed with the letter of
	ard to the language, all the elements marked above were available or furnished to this Authority in the language in which ational application was filed, unless otherwise indicated under this item. ments were available or furnished to this Authority in the following language which is:
	ments were available or furnished to this Authority in the following language which is: language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	language of publication of the international application (under Rule 48.3(b)).
the	language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/55.3).
3. With reg	ard to any nucleotide and/or amino acid sequence disclosed in the international application, the international y examination was carried out on the basis of the sequence listing:
con	tained in the international application in written form.
	d together with the international application in computer readable form.
	nished subsequently to this Authority in written form.
furr	sished subsequently to this Authority in computer readable form.
The	statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the rnational application as filed has been furnished.
The	statement that the information recorded in computer readable form is identical to the written sequence listing has
4. The	amendments have resulted in the cancellation of:
닐	the description, pages
	the claims, Nos.
	the drawings, sheets/fig
This beyon	report has been established as if (some of) the amendments had not been made, since they have been considered to go and the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
* Replacements in this repland 70.17).	nt sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16
* Any replace	ment sheet containing such amendments must be referred to under item I and annexed to this report.
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7.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. Statement			
Novelty (N)	Claims	1-15	YES
*	Claims	_	NO
Inventive step (IS)	Claims		YES
	Claims	1-15	NÓ
Industrial applicability (IA)	Claims	1-15	YES
	Claims		NO

2. Citations and explanations

- Document 1: WO 00/63400 A (The Samuel Roberts Noble Foundation), 26 October 2000
- Document 2: Tatsuo Akai et al., "Takou-shitsu ceramic board ni yoru shokubutsu saibaihou," SHITA Rep., no. 14, pages 34-47 (1998)

(1) Claims 1 to 13

The invention described in claims 1 to 13 does not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

Document 1 discloses a feature wherein a plant cultivated in a pot containing soil is transformed using an in planta method of immersing the plant in a carrier solution holding a gene for the transformation, and a feature wherein if soil seems likely to fall out of the pot when it is being immersed, the pot is wrapped in fabric or the like in order to prevent the soil from falling out. Document 2 discloses a method for cultivating a plant wherein water and nutrients are provided to the surface of a microporous material in which seeds are germinated and grown.

The invention disclosed in document 1 addresses the problem of soil falling out of a pot, and applying the non-soil cultivation method disclosed in document 2 as a

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means of solving said problem instead of holding loose soil in place with fabric or the like is not recognized as presenting any particular difficulty. Moreover, a person skilled in the art could easily predict the effect of doing so in the light of the disclosures in documents 1 and 2.

(2) Claims 14 and 15

The invention described in claims 14 and 15 does not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

As discussed in item (1), a person skilled in the art could easily conceive of applying the non-soil cultivation method disclosed in document 2 to the in planta method disclosed in document 1, and thus, applying said non-soil cultivation method during a selection stage for plant transformation also falls within the range of features of which a person skilled in the art could easily conceive. Moreover, a person skilled in the art could easily predict the effect of doing so in the light of the disclosures in documents 1 and 2.